

MICA IL-80 ATEX and IL-80 ATEX EM
 Classification: Eex eib IIC T4 (Tamb -20...+35°C) / T3
 Certificate: VTT 03 ATEX 027X
 The lamps have been engineered and manufactured in accordance with European standards GENELEC EN 50014, EN 50019, EN 50020 and 50281-1.



01479_2

MICA IL-80 ATEX SAFETY INSTRUCTIONS:

Taking lamp into use:

- Cleaning and any other necessary preparations must always be performed prior to moving into potentially explosive environment.
- Charger must not be placed in potentially explosive environments. Lamp may not be charged in potentially explosive environments.

Use:

- Check that classification of potentially explosive environment complies with that issued for lamp.
- Lamp may not be opened in potentially explosive environments.
- If lamp becomes malfunctioned, remove it from potentially explosive environment.

Maintenance of lamp:

- Lamp may be maintained by electrical technicians only.
- Maintenance operations must be performed outside of potentially explosive environments.
- Spare parts may be original MICA spare parts only.

TECHNICAL SPECIFICATIONS:

Battery NiCd 6V 5.0Ah
 Glass lens 110.5 x 5mm
 Reflector narrow or medium-wide
 Operation temperature -20°C...+40°C
 Protection class IP-66 (injection water and dust proof)
 Dimensions (h x w x d) 121 x 121 x 216 mm
 Weight 1.4 kg
 Bulb 1 W Luxeon LED or 2,4 W halogen bulb

WARRANTY

Your MICA lamp, battery and charger are guaranteed for one year from date of purchase against all defects in materials and workmanship. During the warranty period, these units may be serviced by an authorized MICA service agent only. For after-sales service, contact your local MICA dealer.

EC DECLARATION OF CONFIRMITY

We hereby declare that the product described below has been designed and manufactured in accordance with the following standards/directives:
 -Directive 94/9/EC Equipment (ATEX) for use in potentially explosive atmospheres
 -EMC directive 89/336/EC

Manufacturer:	MICA ELEKTRO OY LTD. Höyläämötie 11 A FIN-00380 HELSINKI, Finland phone:+358-9-561 7666 fax:+358-9-561 76688 email: info@mica.fi www.mica.fi
Product name, model, serial number, year of manufacture:	Mica Halogen IL-80 ATEX Serial number (in eight digits) and year of manufacture marked on the ID tag.
Certificate number:	VTT 03 ATEX 027X
Product type:	Rechargeable handlamp

Helsinki, 07.03.2003

Matti Öhman, CEO
 MICA ELEKTRO OY LTD.

- mica - halogen -

IL-80 ATEX and IL-80 ATEX EM



Rechargeable MICA lamps are efficient and reliable tools. In order to fully utilize your new lamp, please read these instructions before use.

CLASSIFICATION:

The lamps in MICA IL-80 ATEX series are engineered to be used in potentially explosive environment as listed in classification EEx eib IIC T4 (Tamb -20...+35°C) / T3.



Certificate No.E-4917

BEFORE USE:

The battery discharges when the lamp is stored and it must be recharged prior to use. The battery will reach its full capacity after it has been charged and discharged approximately ten times. The lamp should be charged using a MICA charger suitable for the lamp and the charger must **never be placed in a potentially explosive environment**. The battery will be charged from empty to full in 6...11 hours (depending on ambient temperature and condition of the battery). We recommend that you always store the lamp in its charger. Please read the manual for the charger as well.

Mica Elektro Oy LTD. P.O.B. 42, FIN-00381 Helsinki
 tel:+358-9-5617 666 fax:+358-9-5617 6688
 email: info@mica.eu internet: www.mica.eu



MICA IL-80 ATEX Hand lamp manual

USE:

Operating switch of the lamp has three positions (half power/full power/OFF).
Note! Order of the positions in IL-80 ATEX EM emergency light model is full power/half power/OFF.

Operating time of the lamp after it has been fully charged depends of the luminosity chosen using the switch. In addition, the overall operating time will be longer if the lamp is used for short periods of time at a time. When there is approximately 1- 2 h operating time left (depending on ambient temperature and condition of battery), the light will begin to flash every 15 seconds. In special circumstances, the lamp can be switched on once after the battery has been discharged whereupon the lamp will function for a short period of time. We do not, however, recommend this because it shortens the life time of the battery.

If the lamp is used only for short periods of time between charges, we recommend that the lamp be let burn out, i.e., be completely discharged after every tenth time it has been used. This is to prevent a so-called memory phenomenon in the battery cells. When the battery is discharged, control electronics will automatically switch off the lamp in due time before there is a danger of deep discharge in the battery cells.

Emergency light mode (IL-80 ATEX EM):

The IL-80 ATEX EM model lamp has an emergency light mode: when placed in the charging stand it will always remain in stand-by mode and will be switched on with full power if mains voltage is cut off. A green LED light on the side of the lamp shows that the bulb is operational and the lamp is in stand-by emergency light mode.

MAINTENANCE:

Users may replace all spare part entities that can be purchased as spare parts. **Repairing, remodeling and adjusting the electronics circuit board is not allowed under any circumstances!** Persons performing maintenance on the circuit board or battery wires and other maintenance tasks requiring soldering must be qualified electronics technician.

When the battery becomes old, operating time of the lamp will become shorter. If the operating time is disturbingly short even though the battery has been fully charged, the battery must be replaced. Instructions for replacing the battery will be delivered with a new battery. **Spare part batteries provided by the manufacturer only may be used in the lamp.**

When performing maintenance tasks, the lamp must always be at least partially disassembled. The lamp must be disassembled according to the instructions below:

1: Loosen the securing screw for the locking ring, unscrew the locking ring and remove the glass lens. Unscrew the bulb locking ring and remove the LED (or halogen bulb) using a piece of clean cloth. Open the support bushing using a wide chisel and remove the reflector.

2: The LED bulb and the reflector must be handled with care because any dirt on them will affect luminosity. If the reflector or the bulb become dirty, they must be cleaned using a suitable solvent.

3: Loosen outer screws of charging contacts and remove the contacts in order to remove the slide-in unit inside the cover. If the unit is tight, lightly knock the lamp against the edge of a table. Pull the carriage halfway out of the cover and remove the operating switch connector (yellow wires) and in the **IL-80 ATEX EM** model also the (5mm) LED connector. Pull the carriage all the way out of the cover.

4: Begin removing the switch from the outside of the cover: First open four screws holding the cover plate of the switch in place. Remove the cover plate and the protective rubber cover and then remove the switch from inside the cover. **NOTE!** Check at the same time that the protective rubber cover is intact because its condition has an essential impact on sealing of the lamp.

Assembly: Assemble the lamp in reverse order.

NOTE! The lamp must not be charged and all maintenance operations may not be performed in potentially explosive environments.

Resetting short-circuit protection:

When the LED bulb has been replaced, electronics short-circuit protection may need resetting. Protection will be reset when the lamp is placed in the charger for a moment. Short-circuit protection should be reset after replacing any large spare part entity as well.

SPARE PARTS:

Note that the **EX classification** issued for the MICA IL-80 ATEX lamp requires that original **MICA spare parts** are used in the lamp. The MICA IL-80 ATEX uses 1 W Luxeon® LED or 2,4 W halogen bulb. 1 W Luxeon LED has a longer service life than a traditional bulb and is equivalent to a 5-watt halogen bulb in the IL-80 ATEX. The operating and temperature classifications of the lamp are NOT altered. You can change the shape of the beam by choosing a narrow or a medium-wide reflector.

NOTE ! When ordering spare parts, please give the type and serial number of the lamp or charger!

SPARE PART LIST:

1	H0104_3	Locking ring and securing parts
2	H0105_1	Glass lens
3	H0102_2	IL-80 switch (molex connector)
4	H0101_3	Switch fitting with parts
5	H0106_2	Sealing rings (2 pcs)
6	H0032_5	1 W Luxeon®LED
	H0032_1	2.4W halogen bulb
7	H0109_2	IL-80 bulb fitting Px 13.5
8	H0111_4	IL reflector, narrow, Px 13.5
	H0111_5	IL reflector, medium, Px 13.5
9	H0056_1	Charge contacts (incl. screws and sealing rings)
10	H0115_1	IL-80 ATEX battery + replacement instructions
11	H0116_1	IL-80 ATEX circuit board
	H0116_2	IL-80 ATEX EM circuit board
12	H0117_1	IL-80 ATEX EM emergency light LED series
13	12110	1 W LED Update series

ACCESSORIES:

01834	IL-80 ATEX carrying strap
11256	Lamp stand
11350	Red color filter
11351	Green color filter
11352	Orange color filter
11266	Protective bag for color filters

OPERATING TIMES 1 W LUXEON LED:

Half power: 40h Full power: 24h

OPERATING TIMES 2,4 W HALOGEN BULB:

Half power: 18h Full power: 11h

